

AMENDMENTS TO THE SPECIFICATION

Please replace the abstract with the following amended abstract:

-- ~~The phases of distortions of a signal outputted from an amplifier are measured.~~ A phase measurement device measures an output of an amplifier when an input signal having input frequency components  $\omega_{10}$  and  $\omega_{20}$  is fed to the amplifier, ~~and~~<sup>[1.]</sup> ~~The phase measurement device~~ includes multipliers for orthogonally transforming the output of the amplifier ~~by means of~~  $\omega e$ , a phase acquisition section for acquiring phases  $\theta_1$  and  $\theta_2$  of the input frequency components  $\omega_{10}$  and  $\omega_{20}$  in the output of the multipliers, and  $\theta_3$  and  $\theta_4$  (third distortion), and  $\theta_5$  and  $\theta_6$  (fifth distortion) of the distortion components, a match time/phase measurement section for measuring a match time point  $\Delta t$  when  $\theta_1$  and  $\theta_2$  match each other ~~according to the acquisition result of the phase acquisition section~~, and a distortion component phase measurement section for measuring phases  $\theta_3$  to  $\theta_6$  ~~of the distortion components~~ at the match time point  $\Delta t$  ~~according to the acquisition result of the phase acquisition section~~. The phase acquisition section acquires at least one of  $\theta_1$  and  $\theta_2$ , and  $\theta_3$  and  $\theta_5$  (with the frequencies higher than those of  $\theta_1$  and  $\theta_2$ ) or  $\theta_4$  and  $\theta_6$  (with the frequencies lower than those of  $\theta_1$  and  $\theta_2$ ). --